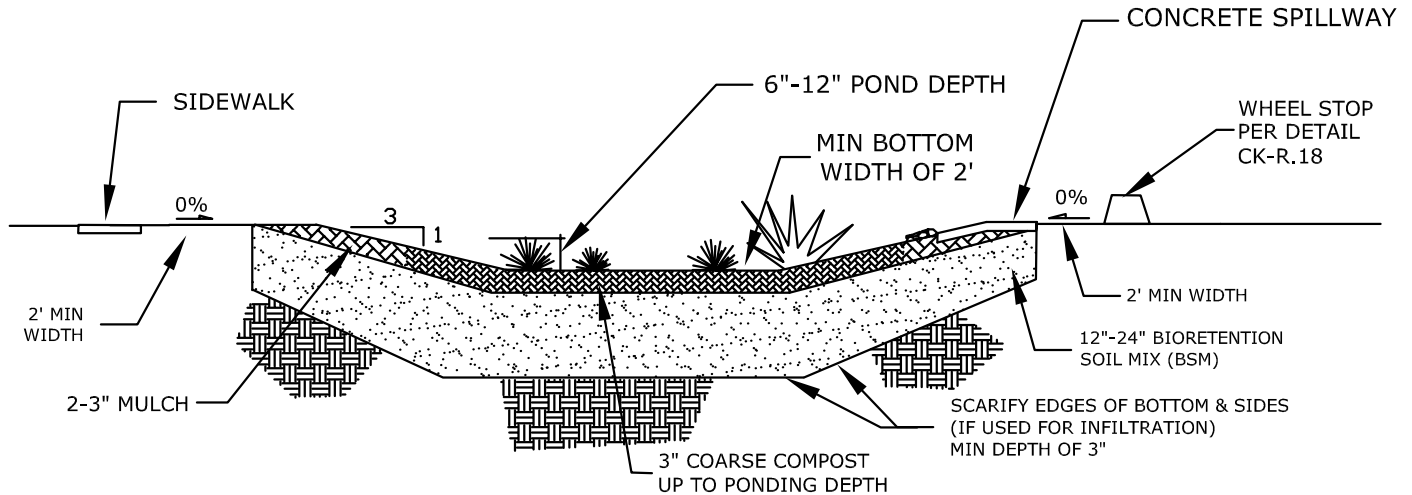


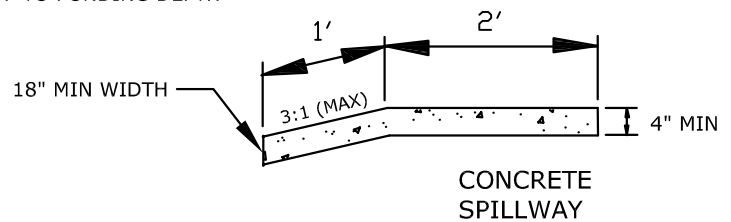
BIORETENTION CELL (ENGINEERED RAIN GARDEN) OVERLAND INFLOW AND OUTLET

LAST REVISED: 01/12/15



SIDE VIEW

NTS



RAIN GARDEN SHAPES WILL VARY.
SHAPE AND PLANTS SHOWN IN DIAGRAM
ARE FOR ILLUSTRATION PURPOSES ONLY.

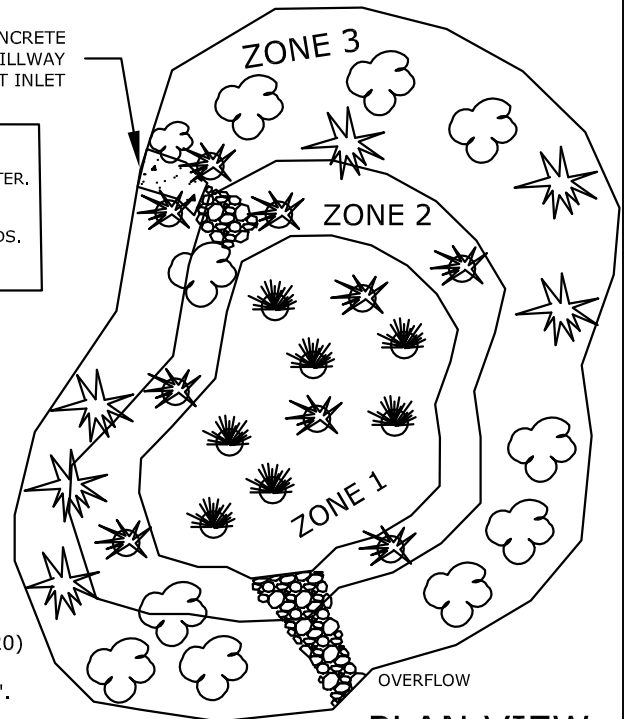
PLANTING ZONES

- ZONE 1: AREA WITH FREQUENT STANDING WATER.
- ZONE 2: AREA WITH OCCASIONAL STANDING WATER, AND EXTENDED DRIER PERIODS.
- ZONE 3: AREA WITH DRIER CONDITIONS.

NOTES

1. MAXIMUM BOTTOM SLOPE OF CELL IS 0.5%.
2. OVERFLOW POINT SHALL BE AT LEAST 6" BELOW ANY ADJACENT PAVEMENT AREA.
3. MINIMUM 3' DEPTH BETWEEN BOTTOM OF BIORETENTION SOIL MIX (BSM) AND WATER TABLE.
4. INSTALL STREAMBED COBBLE (1" - 4") AT INLET TO DISSIPATE RUNOFF.
5. BSM SHALL CONTAIN THE FOLLOWING:
 - AGGREGATE TO COMPOST RATIO: 60% MINERAL AGGREGATE (WITH LESS THAN 5% FINES), 40% COMPOST (MEET REQUIREMENTS IN WAC 173-350-220)
 - TOTAL BSM ORGANIC MATTER CONTENT OF 4-8% (BY DRY WEIGHT)
 - BSM DEPTH OF 12-24". ENHANCED TREATMENT REQUIRES MIN DEPTH OF 18".
6. MINIMUM SETBACK OF 5' FROM TOP OF BIORETENTION CELL TO BUILDING STRUCTURES AND PROPERTY LINES. DO NOT LOCATE IMMEDIATELY UPSLOPE OF BUILDING STRUCTURES.
7. SITE SPECIFIC LANDSCAPE MUST MEET BIORETENTION PLANT DESIGN CRITERIA LOCATED IN STORM LID SECTION OF THE PRE-APPROVED PLANS.
8. MAX 3" MULCH LAYER. MULCH MUST BE WOOD CHIPS CONSISTING OF SHREDDED OR CHIPPED HARDWOOD. MULCH SHALL NOT CONTAIN WEED SEEDS, GRASS CLIPPINGS, AND LARGE CHUNKS OF BARK.
9. FOR CELLS IN PARKING LOTS, ADD NARROW GRAVEL FOOT PATHS ACROSS CELLS FOR FOOT TRAFFIC.

CONCRETE
SPILLWAY
AT INLET



PLAN VIEW

NTS

CITY OF KIRKLAND

PLAN NO. CK-L.02



BIORETENTION CELL
OVERLAND I/O